October 2004 Proceedings of the 2004 ACM workshop on Formal methods in security

Nan Zhang, Mark Ryan, Dimitar P. Guelev

engineering

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The <i>eXtensible Access Control Markup Language </i> (XACML) was proposed by the OASIS committee to be used as a standard language in e-business [6]. However, policy files written in XACML are hard to read and analyse directly. In this paper, we present a tool which generates verified XACML scripts from access control system descriptions in simple but expressive language proposed in [3], which admits algorithmic verification of access control systems against appropriately formalised p ...

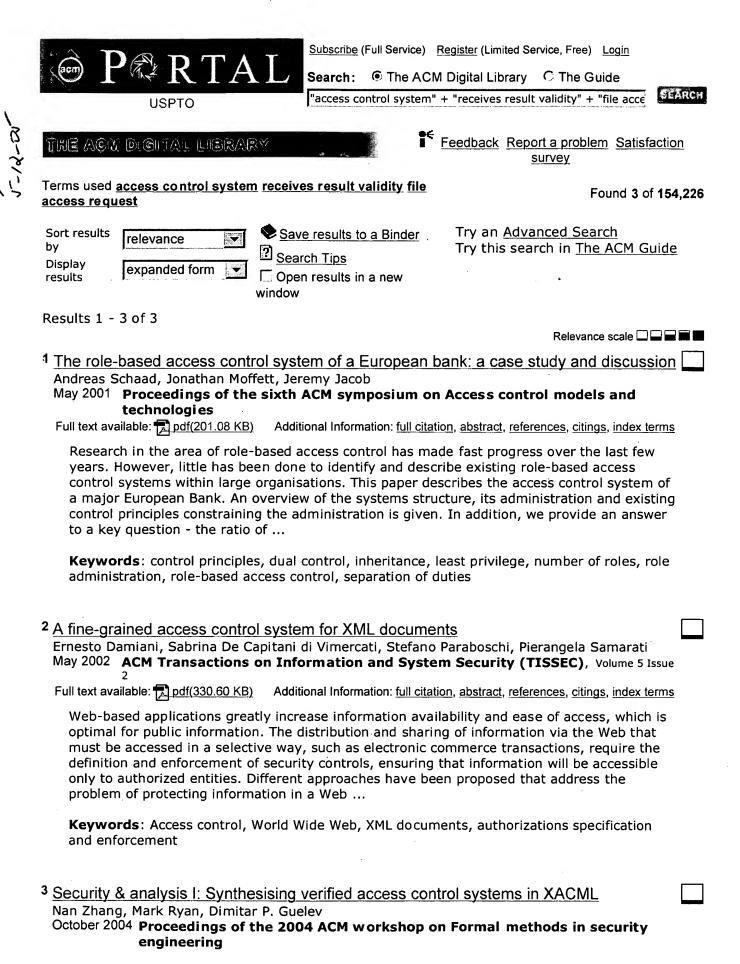
Keywords: XACML, access control model, access control policy language

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<sup>1</sup> Security & analysis I: Synthesising verified access control systems in XACML
Nan Zhang, Mark Ryan, Dimitar P. Guelev October 2004 Proceedings of the 2004 ACM workshop on Formal methods in security engineering
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms
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Keywords: XACML, access control model, access control policy language
A static type system for JVM access control  Tomoyuki Higuchi, Atsushi Ohori  August 2003 ACM SIGPLAN Notices, Proceedings of the eighth ACM SIGPLAN  international conference on Functional programming, Volume 38 Issue 9  Full text available: pdf(150.01 KB) Additional Information: full citation, abstract, references, citings, index terms
This paper presents a static type system for JAVA Virtual Machine (JVM) code that enforces an access control mechanism similar to the one found, for example, in a JAVA implementation. In addition to verifying type consistency of a given JVM code, the type system statically verifies that the code accesses only those resources that are granted by the prescribed access policy. The type system is proved to be sound with respect to an operational semantics that enforces access control dynamically, si
Keywords: JVM, access control, stack inspection, type inference, type system
3 Access control: First experiences using XACML for access control in distributed systems  Markus Lerch, Seth Brester, Behalvah Lerce, Dennis Kafura, Sumit Shah
Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah October 2003 Proceedings of the 2003 ACM workshop on XML security
Additional Information: full citation, abstract, references, citings, index

Full text available: 📆 pdf(459.30 KB)

terms, review

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

**Keywords**: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

### <sup>4</sup> <u>Certificate-based authorization policy in a PKI environment</u>

Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 ACM Transactions on Information and System Security (TISSEC), Volume 6 Issue 4

Full text available: pdf(233.63 KB) Additional Information: full citation, abstract, references, citings, index terms

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords**: Public key infrastructure, XML, digital certificates

## <sup>5</sup> A systematic approach to static access control

François Pottier, Christian Skalka, Scott Smith

March 2005 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 27 Issue 2

Full text available: pdf(387.15 KB) Additional Information: full citation, abstract, references, index terms

The Java Security Architecture includes a dynamic mechanism for enforcing access control checks, the so-called *stack inspection* process. While the architecture has several appealing features, access control checks are all implemented via dynamic method calls. This is a highly nondeclarative form of specification that is hard to read, and that leads to additional run-time overhead. This article develops type systems that can statically guarantee the success of these checks. Our systems all ...

**Keywords**: Type systems, access control, stack inspection

## <sup>6</sup> Securing context-aware applications using environment roles

Michael J. Covington, Wende Long, Srividhya Srinivasan, Anind K. Dev, Mustaque Ahamad, Gregory D. Abowd

May 2001 Proceedings of the sixth ACM symposium on Access control models and technologies

Full text available: pdf(131.07 KB) Additional Information: full citation, abstract, references, citings, index terms

In the future, a largely invisible and ubiquitous computing infrastructure will assist people with a variety of activities in the home and at work. The applications that will be deployed in such systems will create and manipulate private information and will provide access to a variety of other resources. Securing such applications is challenging for a number of reasons. Unlike traditional systems where access control has been explored, access decisions may depend on the context in which re ...

**Keywords**: context aware computing, role-based access control

7 The role-based access control system of a European bank: a case study and discussion Andreas Schaad, Jonathan Moffett, Jeremy Jacob May 2001 Proceedings of the sixth ACM symposium on Access control models and technologies Full text available: pdf(201.08 KB) Additional Information: full citation, abstract, references, citings, index terms
Research in the area of role-based access control has made fast progress over the last few years. However, little has been done to identify and describe existing role-based access control systems within large organisations. This paper describes the access control system of a major European Bank. An overview of the systems structure, its administration and existing control principles constraining the administration is given. In addition, we provide an answer to a key question - the ratio of
<b>Keywords:</b> control principles, dual control, inheritance, least privilege, number of roles, role administration, role-based access control, separation of duties
8 A fine-grained access control system for XML documents
Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati  May 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 2
Full text available: pdf(330.60 KB) · Additional Information: full citation, abstract, references, citings, index terms
Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web
<b>Keywords</b> : Access control, World Wide Web, XML documents, authorizations specification and enforcement
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**IEEE CNF** 

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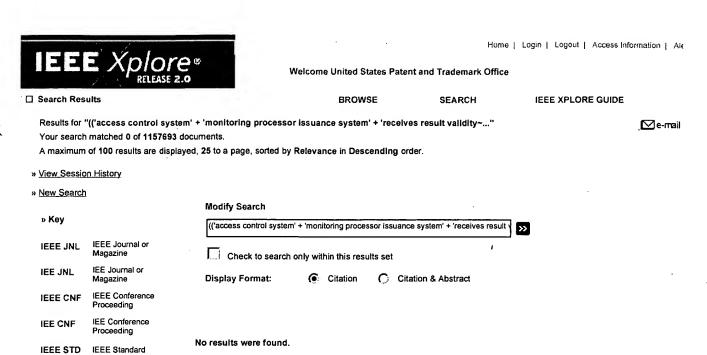
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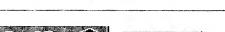
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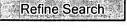
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<u>L8</u>	L7 and (receiv\$3 near result near validity)	1	<u>L8</u>
<u>L7</u>	(L3 or L6) and (L1 or L5)	3481	<u>L7</u>
<u>L6</u>	L4 not L3	1744	<u>L6</u>
<u>L5</u>	L2 not L1	50076	<u>L5</u>
<u>L4</u>	access near rights	11286	<u>L4</u>
<u>L3</u>	"access rights"	9542	<u>L3</u>
<u>L2</u>	"access control"	54888	<u>L2</u>
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<u>L11</u>	L10 and L4	. 3	<u>L11</u>
<u>L10</u>	L9 and ((policy or policies) near file)	10	<u>L10</u>
<u>L9</u>	access near control near program	1078	<u>L9</u>
<u>L8</u>	L7 and (receiv\$3 near result near validity)	1	<u>L8</u>
<u>L7</u>	(L3 or L6) and (L1 or L5)	3481	<u>L7</u>
<u>L6</u>	L4 not L3	1744	<u>L6</u>
<u>L5</u>	L2 not L1	50076	<u>L5</u>
<u>L4</u>	access near rights	11286	<u>L4</u>
<u>L3</u>	"access rights"	9542	<u>L3</u>
<u>L2</u>	"access control"	54888	<u>L2</u>
<u>L1</u>	"access control system"	4812	<u>L1</u>

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<u>L20</u>	L19 and (policy or policies)	1	<u>L20</u>
<u>L19</u>	(L17 or L18) and L15	3	<u>L19</u>
<u>L18</u>	709/219.ccls.	3019	<u>L18</u>
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<u>L16</u>	L15 and ((policy or policies) near file)	0	<u>L16</u>
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<u>L12</u>	L11 and validity	2	<u>L12</u>
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<u>L10</u>	L9 and ((policy or policies) near file)	10	<u>L10</u>
<u>L9</u>	access near control near program	1078	<u>L9</u>
<u>L8</u>	L7 and (receiv\$3 near result near validity)	1.	<u>L8</u>

<u>L7</u>	(L3 or L6) and (L1 or L5)	3481	<u>L7</u>
<u>L6</u>	L4 not L3	1744	<u>L6</u>
<u>L5</u>	L2 not L1	50076	<u>L5</u>
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<u>L3</u>	"access rights"	9542	<u>L3</u>
<u>L2</u>	"access control"	54888	<u>L2</u>
<u>L1</u>	"access control system"	4812	<u>L1</u>

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<u>L12</u>	L11 and validity	2	<u>L12</u>
<u>L11</u>	L10 and L4	3	<u>L11</u> .
<u>L10</u>	L9 and ((policy or policies) near file)	10	<u>L10</u>
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<u>L8</u>	L7 and (receiv\$3 near result near validity)	1	<u>L8</u>
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